

Claims

1. - Heat exchanger which mainly consists of a housing with a bottom (3), an upper wall (8) and side walls (4 to 5 7), whereby onto two pairs of opposite side walls, the front wall (4) and the back wall (6) respectively, are connected a supply (11) and a discharge (12) for the gas to be cooled and whereby means are provided in the housing (2) for separating condensate from the cooled gas 10 which are mainly formed of a series of corrugated vertical walls (17) upon which are provided crosswise extending ribs (19) forming vertical gutters (21) extending from the bottom (3) up to the upper wall (8) of the housing (2), characterised in that holes (22) are 15 provided in the bottom (3) for the discharge of the separated condensate from the gutters (21) via a collector (28), which collector (28) extends from at least under the holes (22) to under an opening (23) which is provided in the bottom (3) between the means for 20 separating condensate and the back wall (3).

their free ends to the front wall (4) of the housing (2).

10. - Heat exchanger according to any of the preceding  
claims, characterised in that each of the above-mentioned  
5 ribs (19) are provided on the outside of a U-shaped bent  
part (18) of the above-mentioned corrugated walls (17).

3. - Heat exchanger according to claim 1 or 2,  
characterised in that the above-mentioned collector (28)  
10 is made U-shaped.

2. - Heat exchanger according to claim 1, characterised  
in that said opening (23) extends over the entire, or  
practically the entire width of the housing (2).

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4. - Heat exchanger according to claim 3, characterised  
in that the leg (31) of the collector (28) which is  
situated closest to the back wall (6), is connected to  
the side edge (24) of the above-mentioned opening (23) on  
20 the side of the back wall (6).

5. - Heat exchanger according to any of the preceding  
claims, characterised in that on the above-mentioned side  
edge (24) of the opening

(23) is provided a standing rib (25).

6. - Heat exchanger according to claim 5, characterised  
in that the above-mentioned standing rib (25) is provided  
5 with a cross edge (26) on its free end which extends over  
practically the entire opening (23).

7. - Heat exchanger according to claim 6, characterised  
in that the above-mentioned cross edge (26), near the  
10 side walls (5-7) of the housing (2), is made shorter than  
around the centre of the housing (2).

8. - Heat exchanger according to any of the preceding  
claims, characterised in that between the means for  
15 separating condensate from the cooled gas and the above-  
mentioned opening (23), below the bottom (3) of the  
housing (2), is provided a crosswise extending edge (27).